

# SITE PLAN

SCALE: 1" = 20'

## WETLAND PROTECTION ACT (C131 S40A)

If alterations (removal of vegetation, grading, excavations, etc.) are to be made within 100' of wetland areas (ponds, brooks, swamps, etc.) a Request for Determination of Applicability of the Wetlands Protection Act should be filed with the town's Conservation Commission. The filing of a Notice of Intent may be required. Local Bylaws may also apply.

**LEGEND**  
 EXISTING CONTOUR..... 100  
 PROPOSED CONTOUR..... 100  
 OBSERVATION HOLE.....  
 PERCOLATION TEST.....  
 SEWAGE LINE..... S  
 SEPTIC TANK..... ST  
 WATER SERVICE..... W

## SOIL LOGS

### Hole D-3

0'-2' top and subsoil  
 2'-6 1/2' sand and gravel  
 Water @ 4'

### Hole D-4

0'-1 1/2' top and subsoil  
 1 1/2'-5 1/2' sand and gravel with boulders  
 5 1/2'-8' silty gravel till  
 Water @ 5 1/2'

### Hole D-5

0'-2 1/2' top and subsoil  
 2 1/2'-3' silt lens  
 3'-7 1/2' sand and gravel  
 Water @ 3 1/2'

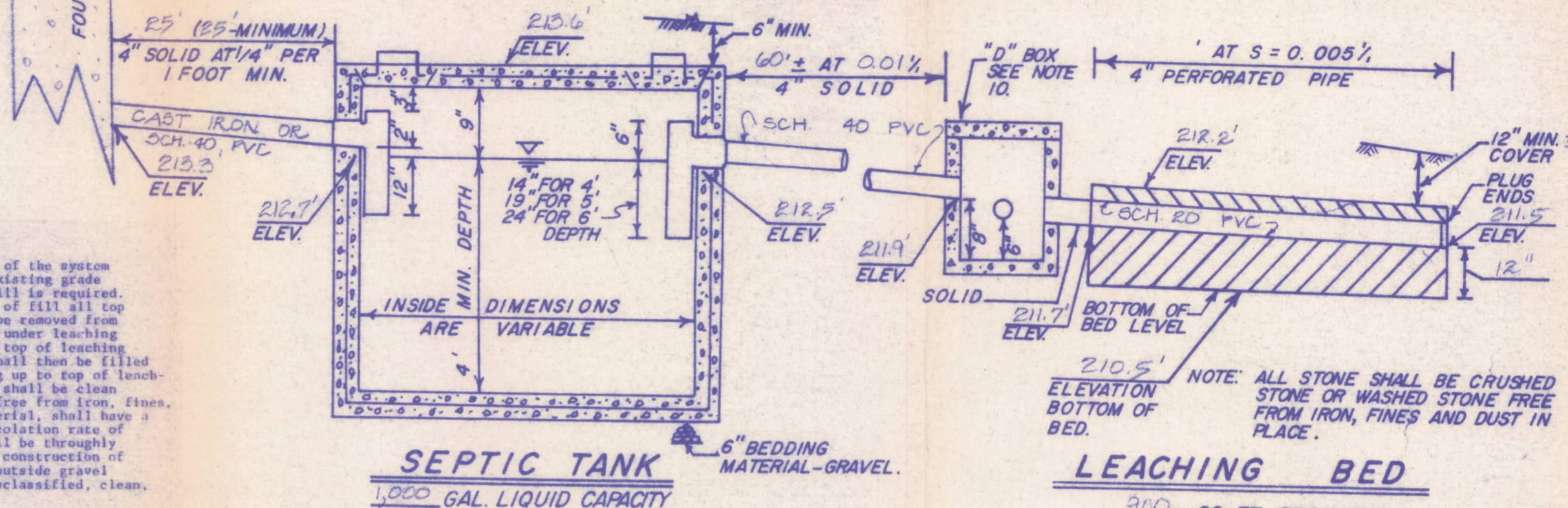
## SYSTEM IN FILL

A portion, or all, of the system is located above existing grade and placement of fill is required. Prior to placement of fill all top and subsoil shall be removed from 25 feet around and under leaching area (unless above top of leaching area). This area shall then be filled with gravel sloping up to top of leaching system. Gravel shall be clean granular material free from iron, fines, and impervious material, shall have a representative percolation rate of 2min/inch, and shall be thoroughly compacted prior to construction of system. Material outside gravel fill area may be unclassified, clean, earthen material.

\*25' OFFSET REQUIRED BETWEEN FOOTING DRAINS AND SEPTIC TANK OR LEACHING FACILITY. (SEE LOCAL REGULATIONS ALSO.)

## PROFILE OF SYSTEM

NOT TO SCALE



**SEPTIC TANK**  
 1,000 GAL. LIQUID CAPACITY

**LEACHING BED**  
 900 SQ. FT. PROVIDED

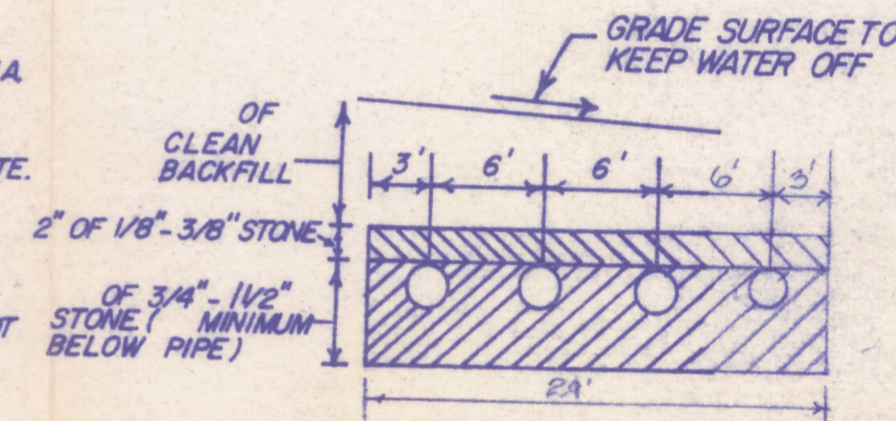
## NOTES:

1. THIS PLAN IS TO SHOW THE DESIGN OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM ONLY. SYSTEM IS DESIGNED FOR FLOWS ESTIMATED UNDER DESIGN CRITERIA.
2. SYSTEM IS DESIGNED ONLY TO ACCOMMODATE SANITARY SEWAGE ASSOCIATED WITH NORMAL DOMESTIC USAGE AND CONSISTING OF WATER-CARRIED PUTRESCIBLE WASTE.
3. SYSTEM NOT DESIGNED FOR GARBAGE GRINDERS. SYSTEM SHALL BE VENTED THROUGH BUILDING PLUMBING AS REQUIRED BY BUILDING CODE.
4. PROPERTY LINES AND HOUSE LOCATION ARE GRAPHIC ONLY, PROPERTY LINES NOT HAVING BEEN VERIFIED, NO REPRESENTATION OR CERTIFICATION AS TO THE ACCURACY OF THOSE SHOWN IS IMPLIED OR INTENDED.
5. APPLICABLE ZONING REGULATIONS SHALL BE CONFIRMED BY OWNER PRIOR TO CONSTRUCTION.
6. PLAN SHOWS ONLY THOSE FEATURES THAT WERE VISUALLY APPARENT ON DATE OF TOPOGRAPHY AND THE ABSENCE OF SUBSURFACE STRUCTURES, UTILITIES, ETC. IS NOT INTENDED OR IMPLIED.
7. THERE ARE NO EXISTING WELLS WITHIN 100' OF THE PROPOSED SEWAGE DISPOSAL SYSTEM. (100' OF SEPTIC TANK.)
8. THERE ARE NO EXISTING SEWAGE DISPOSAL SYSTEMS WITHIN \_\_\_\_\_ OF THE PROPOSED WELL. TOWN WATER PROVIDER
9. SEPTIC TANK SHALL BE OF APPROVED DESIGN AND WATERTIGHT. MANHOLES SHALL EXTEND WITHIN 6" OF FINAL GRADE.
10. DISTRIBUTION BOX OUTLETS TO BE LEVEL-FIRST PIPE LENGTHS TO BE LAID LEVEL. BOX TO BE PLACED ON STABLE BASE. SOLVENT WELDED PVC TEE, CUT OFF 1" ABOVE OUTLETS, IS REQUIRED IF SLOPE OF INLET PIPE EXCEEDS 8%.
11. ALL LOAM, LARGE BOULDERS, OR FOREIGN MATERIAL ENCOUNTERED DURING EXCAVATION TO BE REMOVED FROM THE LEACHING AREA.
12. ALL STONE SHALL BE DURABLE, CRUSHED OR WASHED STONE FREE FROM IRON, FINES, AND DUST IN PLACE.
13. ALL NATURAL SOIL (OR FILL) INTERFACES SHALL BE ROUGHENED PRIOR TO PLACEMENT OF STONE.
14. FINISHED SURFACE OF LEACHING AREA SHALL BE GRADED TO INSURE RUNOFF (2% MINIMUM).
15. ALL DISTURBED AREAS TO BE LOAMED, SEEDING AND MAINTAINED TO PREVENT EROSION.
16. SEPTIC TANK SHOULD BE PERIODICALLY INSPECTED AND MAINTAINED, IF NECESSARY, INCLUDING, WITHOUT LIMITATION, SEPTIC TANK SHOULD BE PUMPED WHEN SLUDGE DEPTH IN BOTTOM EXCEEDS 1/4 THE LIQUID DEPTH, OR EVERY TWO YEARS MINIMUM. ANY VARIANCES OR DEVIATIONS IN DESIGN OR CONSTRUCTION FROM THIS PLAN OR ANY OF THE AFORESAID CONDITIONS RELATING TO THE USE OR MAINTENANCE OF THE PROPOSED SYSTEM SHALL BE DEEMED TO VOID ANY CERTIFICATIONS OR REPRESENTATIONS MADE RELATIVE TO THIS SUBSURFACE SEWAGE DISPOSAL SYSTEM.

NOTE: REPRODUCTION OF THIS PLAN, IN WHOLE OR IN PART, IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE DESIGN ENGINEER AND FIRM.



REVISIONS:	
6/28/84	BUFFER ZONE & HAY BALE DICE



**CROSS SECTION OF BED**  
 (NOT TO SCALE)

## DESIGN CRITERIA

1. PERCOLATION RATES — (MIN./INCH)  

RATE	DEPTH	DATE
"C" 2 MIN/INCH	AT 48"	ON 2-13-84
	AT	ON
	AT	ON
2. OBSERVATION HOLE DATA:  
 SEE SOIL LOGS.
3. FLOWS: 4 BEDROOMS AT 110 GPD = 440 GPD
4. SEPTIC TANK REQUIRED: (1,000 GAL. MIN.)  
 440 GPD X 1.5 = 660 GAL.
5. LEACHING AREA PROVIDED:  
 A. BASIS 2 MIN/IN. PERCOLATION RATE.  
 B. APPLICATION RATE ALLOWED 1.00 GPD/SF.  
 C. BOTTOM AREA PROVIDED 900  
 D. GPD. PROVIDED FOR 900 PER TITLE 5.

STREET: CHARTER ROAD LOT NO. 2  
 ADDITIONAL TEST HOLE REQD

## SUBSURFACE SEWAGE DISPOSAL SYSTEM

IN  
 ACTON, MASS.  
 DESIGNED FOR  
 AUTHENTIC HOMES

SCALE AS SHOWN. JUNE 1984

CHARLES A. PERKINS CO., INC.  
 REGISTERED ENGINEERS & SURVEYORS  
 444 HIGH ST. - CLINTON, MASS 01510

JOB NO. 6174 PLAN NO. M-6629